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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/762,711	01/22/2004	Robert Jonathan Carr	CAR780.05	5217

34452 7590 06/02/2005

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EXAMINER

BAREFOOT, GALEN L

ART UNIT PAPER NUMBER

3644

DATE MAILED: 06/02/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 10/762,711	<b>Applicant(s)</b> CARR ET AL.	
	<b>Examiner</b> Galen L Barefoot	<b>Art Unit</b> 3644	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on 17 March 2005.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-35 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-35 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
     Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |   |   |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                        | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)    | Paper No(s)/Mail Date. _____  |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____   | 6) <input type="checkbox"/> Other: _____                                    |

*af*

***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1,4,5,14,19,22-24 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Pelet (French # 83262).

Pelet shows airflow inducement 41, coanda above 47-48, wing 51, curved surface 52, flaps 59,61. the flow from 41 that exits at 48 inherently generates a Bernoulli lift on the curved surface ie the enhanced flow over the curved surface generates a reduced pressure on the surface and therefore lift.

***Claim Rejections - 35 USC § 103***

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 2-3,6,7,18,20,21,28,29,35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pelet in view of Rebasti (2996266).

Rebasti teaches placing flaps 11 on the conada 3 and 12 the curved surface 1. It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide other surfaces of Pelet with flaps as taught by Rebasti since it will enhance control.

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1. Claims 8-10,15,16,17,25-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pelet.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide Pelet with wheels, water landing or aircusion means since this is a well know addition for landing and movement on the ground also obvious to drive 41 with any type motor.

1. Claims 11-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pelet in view of Vass (5503351) .

It would have been obvious to one having ordinary skill in the art at the time the invention was made to mount the lifting wing of Pelet on rotatable mounts as taught by Vass since it will increase forward propulsion efficiency.

2. Claim 30 is rejected under 35 U.S.C. 103(a) as being unpatentable over Pelet in view of Sakamoto (4941628) .

It would have been obvious to one having ordinary skill in the art at the time the invention was made to Provide the lifting means of Pelet with a further bypass as taught by 16 of Sakamoto in figure 6 since it will enhance the coanda effect by the increased flow.

1. Claims 31-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pelet and Sakamoto as applied in paragraph above, and further in view of Shuba (5261228).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to the bypass of the above combination with a gate as taught by figure 2 of Shuba since it will enhance the bypass ratio.

Applicants remarks have been considered but are not deemed persuasive since the reference inherently generates Bernoulli lift even if the text does not specifically discuss

it, this would be clear to one of ordinary skill that merely observes what is clearly shown in the figure.

1. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Galen L Barefoot whose telephone number is 571-272-6898.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Teri Luu can be reached on 571-272-7045. The fax phone number for the organization where this application or proceedings is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceedings should be directed to **800-786-9199**.

Information regarding the status of an application may also be obtained from the Patent Application information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

May 31, 2005



**Galen Barefoot**  
**Primary Examiner**  
**Technology Center 3644**